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TITLE: DIGITAL SIGNAL PROCESSING CIRCUIT, ITS
PROCESSING

METHOD, DISPLAY DEVICE, LIQUID CRYSTAL DISPLAY

DEVICE AND

LIQUID CRYSTAL PROJECTOR

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ABSTRACT:

    PROBLEM TO BE SOLVED: To solve the problem that parts equivalent
to a peak
and a valley are viewed as lateral lines on a picture since the
operation
result of linear interpolation becomes a polygonal line when linear
interpolation is performed on a vertical **direction,** and the
inclination of the
polygonal line becomes sharp when the **correction** quantity of **color
unevenness**
is large.

    SOLUTION: Correction data on luminance unevenness in a video,
which is
displayed on the picture, is stored in RAM 24 at every correction
point

obtained by dividing the picture in horizontal and vertical **directions** at
prescribed intervals. Then, correction data on the whole **display** picture is
generated in an interpolation operation by three-dimensional non-linear
interpolation in the horizontal **direction,** the vertical **direction** and a
gradation **direction** in an interpolation operation block 25. Generated
correction data is added to digital data after various signals are processed by
an adder/subtracter 35 and **color unevenness is corrected**.